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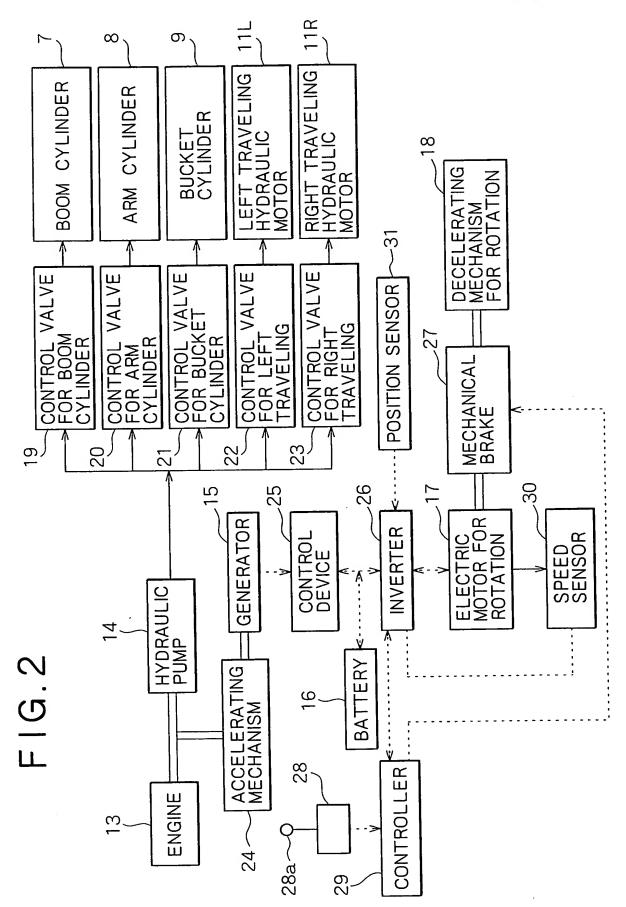
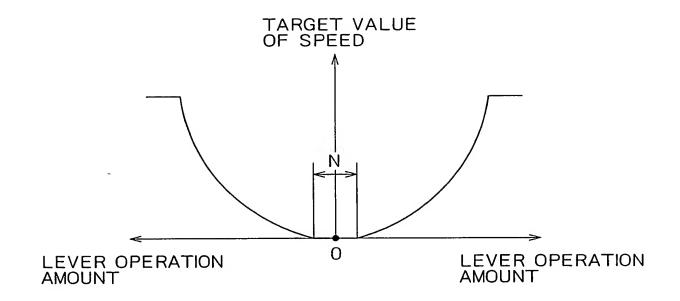
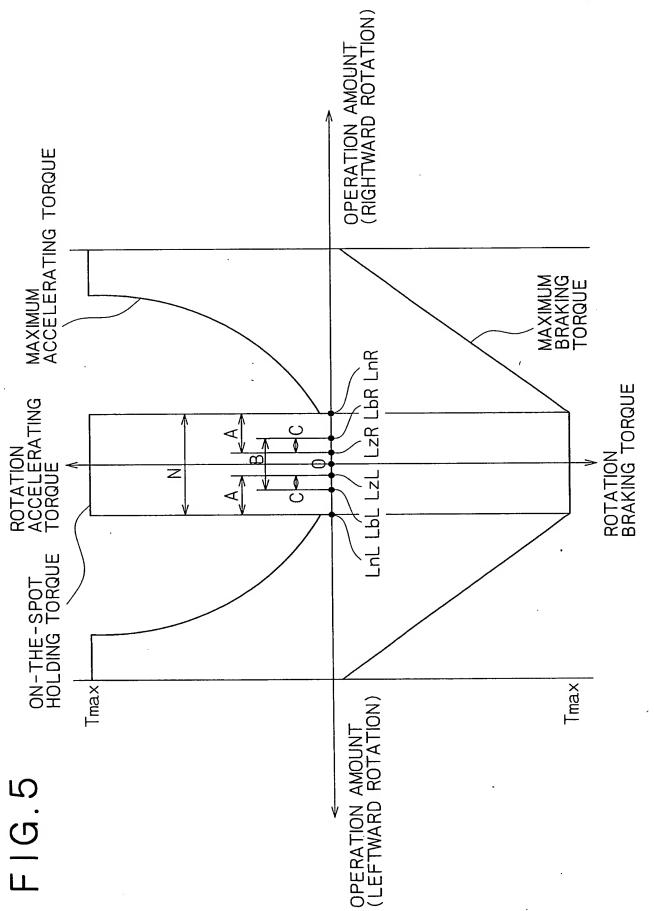


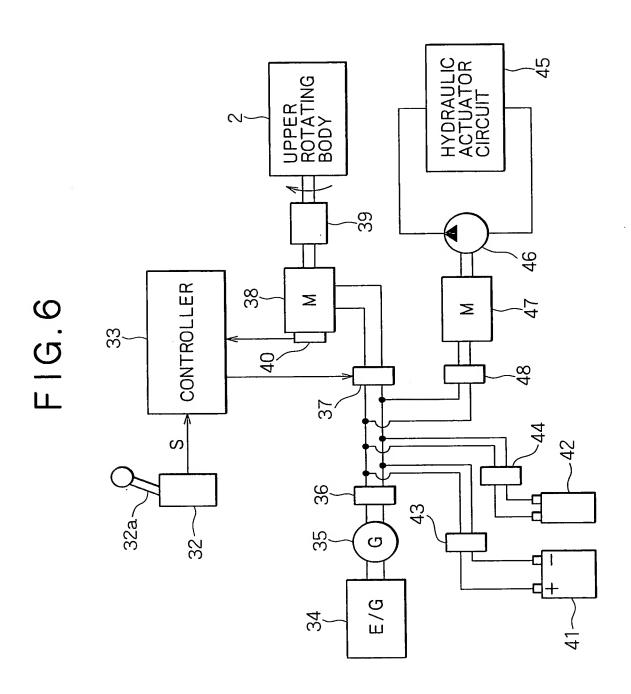
FIG.3



SPEED CONTROL BRAKE RELEASE MECHANICAL LnR POSITION HOLDING CONTROL LbR ⋖ \circ ACTUATE MECHANICAL BRAKE LzR PERFORM POSITION HOLDING CONTROL ONLY WHEN STOPPING ROTATING BODY AFTER DECELERATION (VALID FOR SET PERIOD OF TIME) F1G.4 Z Θ LzL POSITION HOLDING CONTROL \circ LbL ⋖ BRAKE RELEASE MECHANICAL LhL SPEED CONTROL

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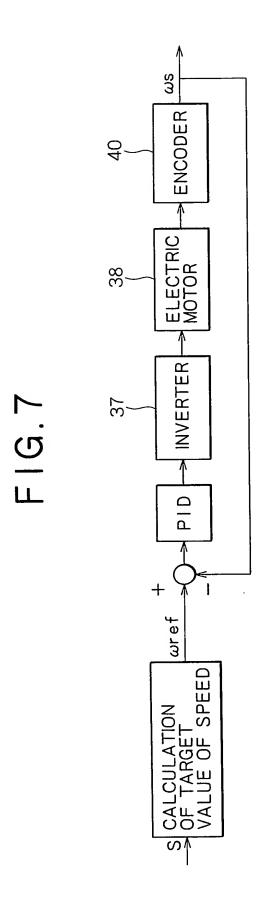


FIG.8

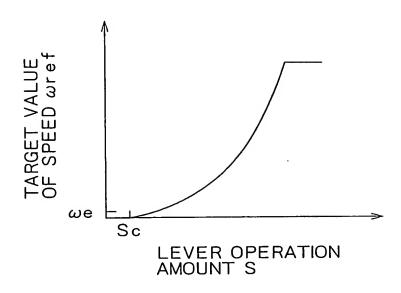
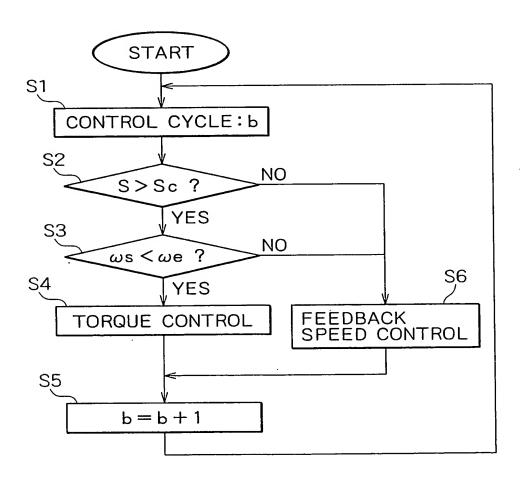


FIG.9



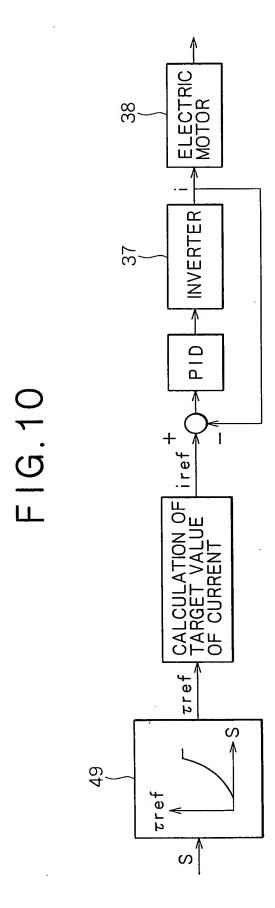
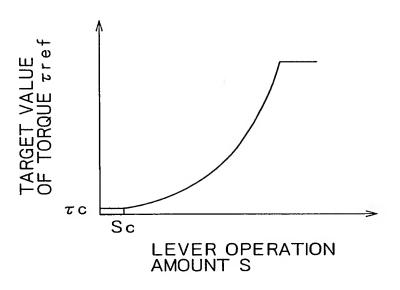


FIG.11



ENCODER 38 INVERTER F1G.12 37 50 wref ഗ

FIG. 13

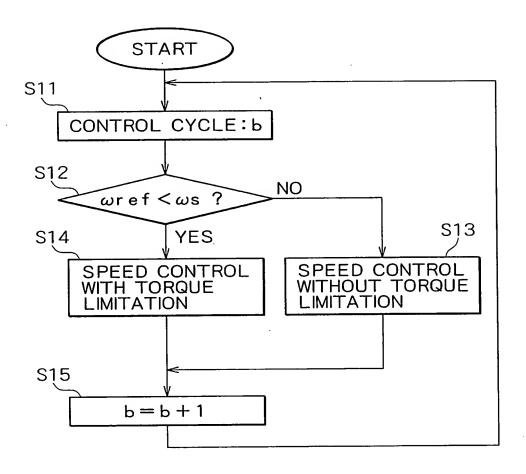


FIG.14

